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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/980,329	03/05/2002	Alan A. Winder	41482/205543 9927	
30559	7590 04/13/2004		EXAMINER	
CHIEF PATENT COUNSEL			SMITH, RUTH S	
SMITH & NE	PHEW, INC.			
1450 BROOKS ROAD		ART UNIT	PAPER NUMBER	
MEMPHIS, 7	PHIS, TN 38116		3737	//
			DATE MAILED: 04/13/2004	, , , , , , , , , , , , , , , , , , ,

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)				
	09/980,329	WINDER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ruth S Smith	3737				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 12 March 2004.						
2a)⊠ This action is FINAL . 2b)□ This	a)⊠ This action is FINAL . 2b)□ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9.	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informat 6) Other:					

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-6, 11,15-21,23,24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Unger in view of Talish et al. Unger discloses a method for treating a patient comprising introducing an ultrasound contrast agent into a patient, impinging ultrasound waves in proximity to the treatment area, wherein the ultrasound contrast agent facilitates in lowering the cavitation threshold (see column 10, lines 42-45). The intensity of the ultrasound is maintained in the range as set forth in claim 2 (see column 10, lines 46-48). The contrast agent is comprised of microbubbles having a radius in the range set forth in claims 3,21 (see column 15, lines 17-19). With regard to claim 4, resonant bubble frequency as set forth is inherent in the operating parameters of the system and the microbubbles used. With regard to claim 5, the frequency of the ultrasound used is within the range set forth (see the examples used in columns 40, 41,43). Unger discloses that any type of ultrasound transducer can be used to provide the ultrasound waves. The ultrasound can be provided simultaneously with the MRI.

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Unger fails to specifically disclose the structure of the ultrasound device for applying the therapeutic ultrasound and fails to specifically disclose mounting the ultrasound source to the body. Talish et al disclose an apparatus for applying therapeutic ultrasound to treat areas in a patient. The structure disclosed by Talish includes all the ultrasound elements as set forth in the claims. The ultrasound source is mounted to the patient's body. It would have been obvious to one skilled in the art to have modified Unger such that the therapeutic ultrasound source is mounted to the body to enable simultaneous MRI operation to be more easily performed. Furthermore, it would have been obvious to one skilled in the art to have modified Unger such that the device used to provide the ultrasound is as taught by Talish et al. The modification merely involves the selection of one of many known types of therapeutic ultrasound assemblies.

With regard to claim 6, Unger fails to specifically disclose the treatment time set forth. Unger discloses that the ultrasound can be applied until the desired effect is achieved. In the absence of any showing of criticality, the specific time that the treatment lasts would have been obvious to one skilled in the art and could be determined without undue experimentation as the time it takes for the desired effect to be achieved.

Claims 7-10,22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Unger in view of Talish et al as applied to claim 1 above, and further in view of Unger et al. Unger does not specifically disclose the manner in which the contrast agent is introduced into the patient. Unger et al disclose a delivery system for delivering a material into a patient via microbubbles. The microtubules can be intravenously introduced into the patient using a syringe. Furthermore, the material in the microbubbles is released via the application of energy over time and is therefore considered to be time-released forms of application. In the absence of any showing of criticality, the manner in which the contrast agent is introduced into the patient would have been a matter of design choice of known equivalents in the art such as those disclosed by Unger et al.

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Claims 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Unger in view of Talish et al as applied to claim 11 above, and further in view of Unger et al. Unger et al disclose a delivery system for delivering a material into a patient via microbubbles. The microtubules can be intravenously introduced into the patient using a syringe. Furthermore, the material in the microbubbles is released via the application of energy over time and is therefore considered to be time-released forms of application. In the absence of any showing of criticality, the manner in which the contrast agent is introduced into the patient would have been a matter of design choice of known equivalents in the art. It would have been obvious to one skilled in the art to have further modified Unger such that the microbubbles are introduced via an IV using a syringe in a time released manner as disclosed by Unger et al. Such a modification merely involves the selection of a well known means for introduction of a material into a patient.

Response to Arguments

Applicant's arguments with respect to claims 1-24 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion .

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruth S Smith whose telephone number is (703) 308-3063. The examiner can normally be reached on M-F 5:30 AM- 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on (703) 308-5181. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ruth S Smith

Primary Examiner

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